

TOPOGRAPHIC SURVEY CONTROL POINT RECORD

STATION LONG NAME	MU01
STATION NUMBER	MU01
4 CHAR ID	MU01
COUNTRY	IRAQ
LOCATION	AL MUTHANNA
SURVEYING AGENCY	IGRS
DATE (OF DESCRIPTION)	09 JUL 2005

CONTENTS	YES	NO	NO OF PAGES
FIELD COORDINATE VALUES	X		1
OFFICE COORDINATE VALUES	X		1
STATION MONUMENT & SITE DETAILS	X		1
STATION DIAGRAM	X		1
ACCESS MAP	X		1
ACCESS DESCRIPTION	X		1
APPROACH PHOTOGRAPHS	X		1
CARDINAL POINT PHOTOGRAPHS	X		2

RECORD OF VISITS

DATE OF VISIT	NAME	UNIT	REMARKS

ADDITIONAL DETAILS/ENCLOSURES

CONTENTS	NO OF PAGES

FIELD COORDINATE VALUES

STATION LONG NAME	MU01
4 CHAR ID	MU01
STATION NUMBER	MU01

THIS STATION IS NEW	YES
IDENTICAL / NEARLY IDENTICAL WITH	N/A

FIELD VALUES FROM THE RECEIVER / HAND HELD GPS – IN WGS84

LATITUDE N / S	29°49'53.89" N
LONGITUDE E / W	43°52'48.58" E
HT (M)	+436
GRID ZONE DESIGNATOR	38R
UTM / MGRS GRID	38R LU 91809 00656
SURVEYING AGENCY	IGRS

FIELD INPUT BY: L/CPL COWARD	UNIT: IGRS	DATE: 09 JUL 05
FIELD CHECKED BY: CPL RIGGOT	UNIT: IGRS	DATE: 09 JUL 05

OFFICE COORDINATE VALUES

WGS 84 ADJUSTED VALUES AS AT: 25 Aug 05

LATITUDE N	29° 49' 53.98803''
LONGITUDE E	043° 52' 48.47550''
SPHEROIDAL HT (M)	451.567
EGM96 GEOID MODEL HT (M)	0.062
ORTHOMETRIC HT (M)	451.505
VERTICAL DATUM	WGS 84
GEOID MODEL USED	EGM 96
RELATIVE TO	CORS STATIONS
RELATIVE POSITION ACCURACY (M)	0.053
RELATIVE HEIGHT ACCURACY (M)	0.077
ADJUSTING AGENCY	OPUS
ADJUSTMENT DATE	25 AUG 2005

LOCAL DATUM VALUES AS AT: 25 Aug 05

SPHEROID	N/A
PROJECTION	N/A
GRID	N/A
VERTICAL DATUM	N/A
LATITUDE N / S	N/A
LONGITUDE E / W	N/A
EASTINGS (M)	N/A
NORTHINGS (M)	N/A
SPHEROIDAL HT (M)	N/A
ORTHOMETRIC HT (M)	N/A
GRID ZONE DESIGNATOR	N/A
TRANSFORMATION AGENCY	N/A
TRANSFORMATION DATE	N/A

GRAVITY VALUE: N/A	TYPE OF STN: N/A	REF: N/A
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AIR PHOTO: N/A	REF: N/A	SCALE: N/A
IMAGERY: N/A	REF: N/A	SCALE: N/A

OFFICE INPUT BY: LCPL COWARD	UNIT: IGRS	DATE: 25 AUG 2005
OFFICE CHECKED BY: LCPL DICKEN	UNIT: IGRS	DATE: 25 AUG 2005

STATION MONUMENT AND SITE DETAILS

STATION LONG NAME: MU01	
STATION NUMBER: MU01	4 CHAR ID: MU01
LOCATION: AL MUTHANNA	COUNTRY: IRAQ
STATION ADDRESS: BORDER FORT	
TEL: N/A	FAX: N/A
LAND OWNER ADDRESS:	
TEL: N/A	FAX: N/A
TYPE OF MARK: HARN	
CONDITION: GOOD	
MARK SETTING: REBAR	NO OF REBARS: 1

MONUMENT PHOTO / SKETCH



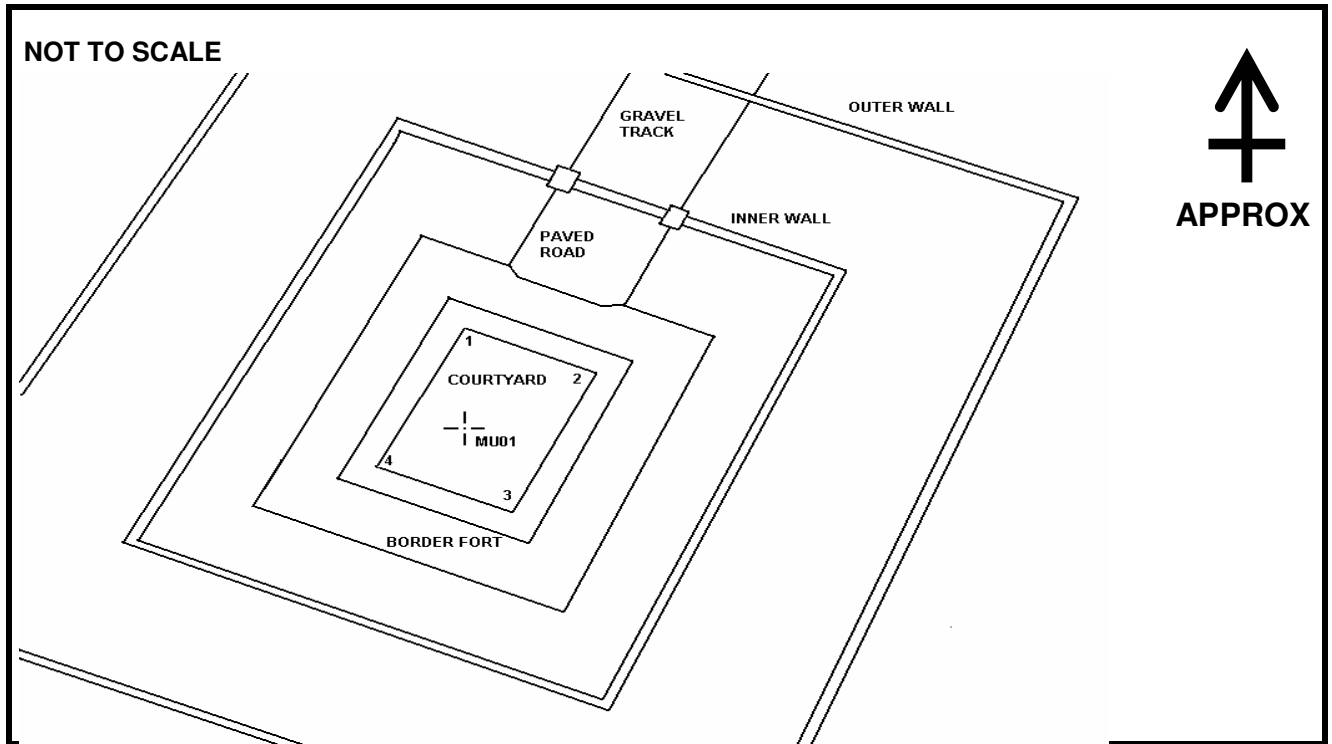
PREPARED BY: L/CPL COWARD	UNIT: IGRS	DATE: 09 JUL 05
CHECKED BY: CPL RIGGOT	UNIT: IGRS	DATE: 09 JUL 05

STATION DIAGRAM

STATION LONG NAME: MU01

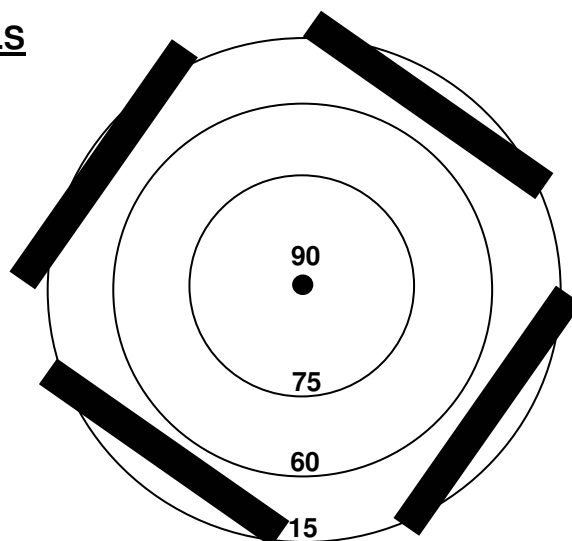
STATION NUMBER: MU01

4 CHAR ID: MU01



NO	DESCRIPTION	BRG/HORZ ANGLE	DISTANCE
1	NORTH CORNER OF COURTYARD	200	7.62M
2	EAST CORNER OF COURTYARD	243	7.47M
3	SOUTH CORNER OF COURTYARD	15	5.86M
4	WEST CORNER OF COURTYARD	75	5.78M

OBSCURITY DETAILS



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CHECKED BY: CPL RIGGOT	UNIT: IGRS	DATE: 09 JUL 05

ACCESS MAP

STATION LONG NAME: MU01

STATION NUMBER: MU01

4 CHAR ID: MU01

MAP DETAILS

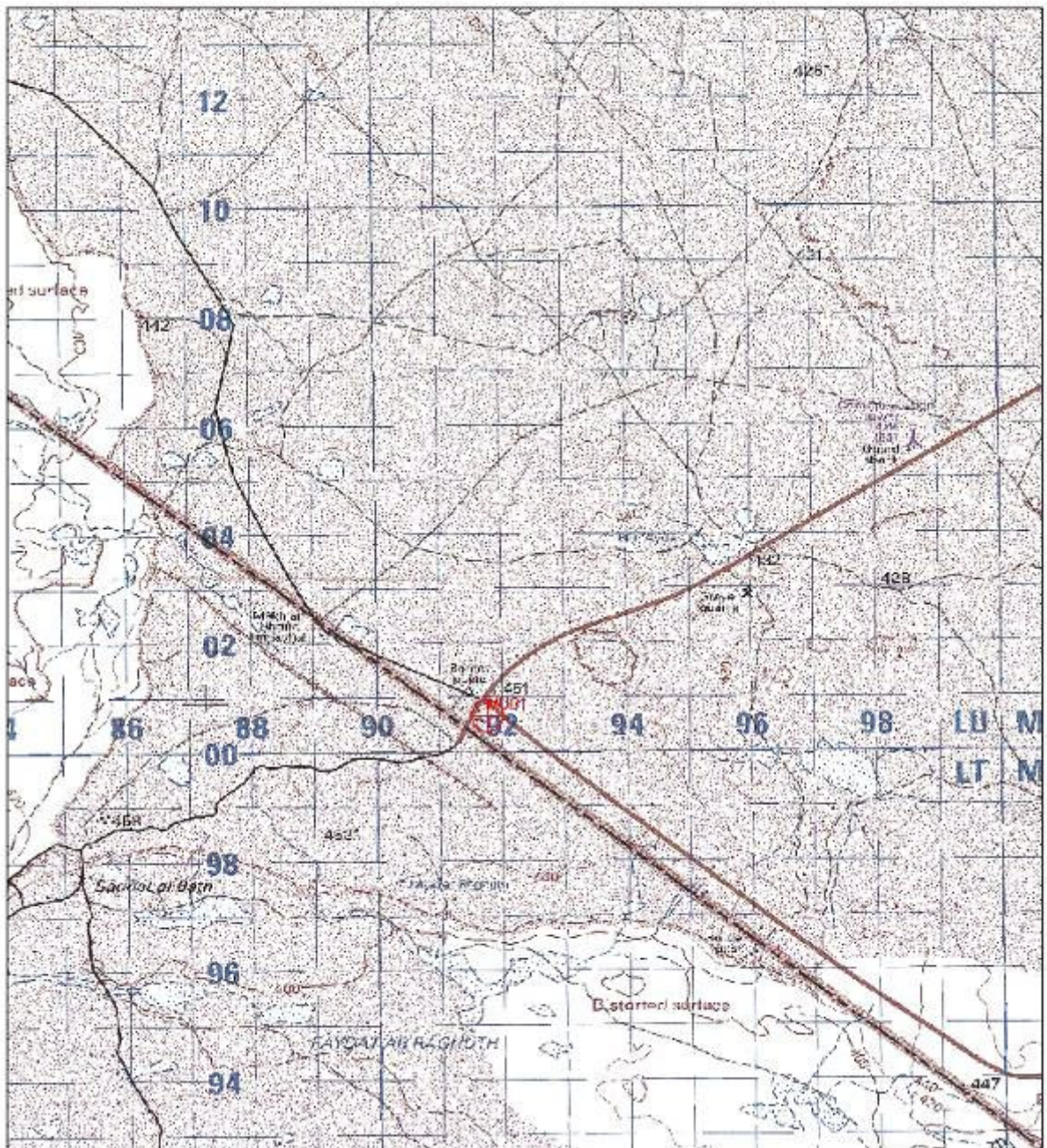
SERIES: K663

SHEET: 4749

EDITION: 2-NIMA

SCALE: 1:100,000

GR: 38R LU 91600 00900



PREPARED BY: SPR WILLIE

UNIT: IGRS

DATE: 10 JUL 05

CHECKED BY: L/CPL COWARD

UNIT: IGRS

DATE: 10 JUL 05

ACCESS DESCRIPTION

STATION LONG NAME: MU01	
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MAP DETAILS	SERIES: K663	SHEET: 4749
EDITION: 2-NIMA	SCALE: 1:100,000	GR: 38R LU 91600 00900

From major road junction West of As Samawah Grid reference NV066 597. Follow metal road South for approximately 213km up to Border Fort name Al Jumymaa at Grid Reference LU 91600 00900. The point is in the center of the courtyard in the Fort. Harn identified by orange Survey Maker marks the point. The fine point is an indent on the head of rebar/rod.

PREPARED BY: SPR WILLIE	UNIT: IGRS	DATE: 10 JUL 05
CHECKED BY: L/CPL COWARD	UNIT: IGRS	DATE: 10 JUL 05

APPROACH PHOTOGRAPHS

STATION LONG NAME: MU01	
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NEAR APPROACH FACING SOUTH



FAR APPROACH FACING SOUTH



TAKEN BY: LCPL COWARD	DATE TAKEN: 09 JUL 2005
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CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU01

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NORTH



SOUTH



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CARDINAL PHOTOGRAPHS

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EAST



WEST



TAKEN BY: LCPL COWARD

DATE TAKEN: 09 JUL 2005